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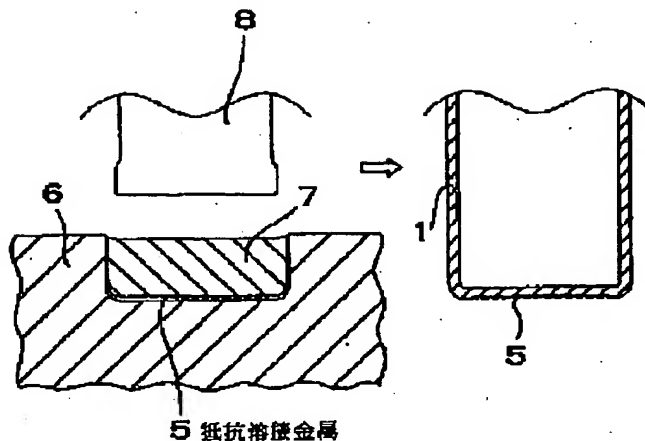
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TITLE : SECONDARY BATTERY HAVING
ALUMINUM EXTERNAL CAN



ABSTRACT : PURPOSE: To provide a secondary battery having an aluminum external can in which crack formation can be prevented effectively at the time of welding, which can be made tough, and to which resistance welding metal can be welded easily, simply, and efficiently at low cost.

CONSTITUTION: A secondary battery is provided with a closed external can 1 made of aluminum. The external can 1 is made of aluminum alloy containing manganese. Taking the strength, processibility, and weldability into consideration, the content of manganese in the aluminum alloy for the external can 1 is specified to be within a range not less than 0.5wt.% and not more than 2.5wt.%. The resistance welding metal 5 is press-joined to the surface of the external can 1 by an impact process. Consequently, as compared with a conventional external can, the can has both improved tensile strength and yield strength. Moreover, the resistance welding metal joined to the external can has extremely high strength and is effectively prevented from coming out of the external can.

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